ABSTRACT

A light-storage self-luminescent glass is disclosed, comprising from 0.01 to 40% of a light-storage self-luminescent material activated by multiple ions and from 99.99 to 60% of a matrix glass; wherein the light-storage self-luminescent material has a particle size from 10 μm to 20 mm, and the matrix glass can be a low melting point glass or a common silicate glass. A process for producing the glass is also disclosed, comprising doping a light-storage self-luminescent material during the forming process of a common silicate glass, or thoroughly mixing low melting point glass powder with a light-storage self-luminescent material, and then heat treating the system at 700-1100°C to obtain the light-storage self-luminescent glass. The process is simple and the cost is low.